



SEQUENCE LISTING

<110> Mirkin, Chad A.  
Letsinger, Robert L.  
Mucic, Robert C.  
Storhoff, James J.  
Elghanian, Robert  
Taton, Thomas A.

<120> NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO  
AND USES THEREFOR

<130> 00-713-i13

<140> 09/975,384  
<141> 2001-10-11

<150> 09/603,830  
<151> 2000-06-26

<150> 09/344,667  
<151> 1999-06-25

<150> 09/240,755  
<151> 1999-01-29

<150> PCT/US97/12783  
<151> 1997-07-21

<150> 60/031,809  
<151> 1996-07-29

<150> 60/200,161  
<151> 2000-04-26

<160> 64

<170> Microsoft Word 2000

<210> 1  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 1  
aaacgactct agcgctata

20

<210> 2  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 2  
atggcaacta tacgcgtag 20

<210> 3  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 3  
ccttgagatt tccctc 16

<210> 4  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 4  
gagggaaatc tcaagg 16

<210> 5  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 5  
aacttgcgt aatggcga 18

<210> 6  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 6

aagttgcgct ttacggctaa tggcga

26

<210> 7  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 7  
tctccttccc ttttc

15

<210> 8  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 8  
gaaaaggaa ggaga

15

<210> 9  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 9  
ctttccctt cctct

15

<210> 10  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 10  
aaacgactct agcgctata gttgccat

28

<210> 11  
<211> 28

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 11  
atggcaacta tacgcgctag agtcgttt 28

<210> 12  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 12  
cctatcgacc atgct 15

<210> 13  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 13  
agcatggtcg ataggaaacg actctagcgc 30

<210> 14  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 14  
gcgctagagt cgttt 15

<210> 15  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random

synthetic sequence

<400> 15  
agcatggtcg ataggatggc aactatacgc 30

<210> 16  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 16  
gtcgatagga aacgactcta gcgc 24

<210> 17  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 17  
agcatggttg ataggaaacg actctagcgc 30

<210> 18  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 18  
agcatggttg ataggaaacg actctagcgc 30

<210> 19  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 19  
tctcaactcg ta 12

<210> 20  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 20  
cgcatcagg at 12

<210> 21  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 21  
tacgagttga gagagtggcc acat 24

<210> 22  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 22  
tacgagttga gaatcctgaa tgcg 24

<210> 23  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 23  
tacgagttga gaatcctgaa tgct 24

<210> 24  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 24  
tacgagttga gactcctgaa tgcg 24

<210> 25  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 25  
tacgagttga gaatcctgaa tgc 23

<210> 26  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 26  
tacgagttga gacatcctga atgcg 25

<210> 27  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 27  
tacgagttga gaatcctgaa tgcg 24

<210> 28  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 28  
taggacttac gc 12

<210> 29  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 29  
tacgagttga gaccgttaag acgaggcaat catgcaatcc tgaatgcg 48

<210> 30  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 30  
tgcattgttgc cctcgatcc acgg 24

<210> 31  
<211> 72  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 31  
tacgagttga gaccgttaag acgaggcaat catgcatata ttggacgctt tacggacaac 60  
atcctgaatg cg 72

<210> 32  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 32  
gttgtccgtt aagcgatccaa tatatgcgtt attgcctcgat cttaaacgg 48

<210> 33  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 33  
tctcaactcg ta 12

<210> 34  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 34  
tacgagttga gaatcctgaa tgcg 24

<210> 35  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 35  
cgcattcagg at 12

<210> 36  
<211> 141  
<212> DNA  
<213> anthrax

<400> 36  
ggccggatgag tcagtagtta aggaggctca tagagaagta attaattcgt caacagaggg 60  
attattgtta aatattgata aggatataag aaaaatatta tccagggtta tatttagaa 120  
attgaagata ctgaaggct t 141

<210> 37  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random

synthetic sequence

<400> 37  
taacaataat ccctc 15

<210> 38  
<211> 15  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 38  
atccttatca atatt 15

<210> 39  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 39  
tgaggctcct taactactga ctcatccgccc 30

<210> 40  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 40  
tgttgacgaa ttaattactt ctcta 25

<210> 41  
<211> 27  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 41  
tataaccctg gataatattt ttcttat 27

<210> 42  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 42  
aagcccttca gtatcttcaa tttctacaa 29

<210> 43  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 43  
tctcaactcg taaaaaaaaaa aa 22

<210> 44  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 44  
tacgagttga gaatcctgaa tgcg 24

<210> 45  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 45  
aaaaaaaaaa cgcattcagg at 22

<210> 46  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 46  
tctcaactcg taaaaaaaaa aa 22

<210> 47  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 47  
aaaaaaaaaa cgcattcagg at 22

<210> 48  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 48  
tacgagttga gaatcctgaa tgcg 24

<210> 49  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 49  
ctacttagat ccgagtgccc acat 24

<210> 50  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 50  
cgcattcagg at 12

<210> 51  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 51  
aaaaaaaaaa aaaaaaaaaa cgcattcagg at 32

<210> 52  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 52  
cgcattcagg atwwwwwwww wwwwwwwww ww 32

<210> 53  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 53  
atcctgaatg cg 12

<210> 54  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random synthetic sequence

<400> 54  
atcctgaatg cg 12

<210> 55

<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 55  
aaaaaaaaaa aaaaaaaaaa 20

<210> 56  
<211> 27  
<212> DNA  
<213> Anthrax

<400> 56  
ggattattgt taattattga taaggat 27

<210> 57  
<211> 12  
<212> DNA  
<213> Anthrax

<220>  
<221> misc\_feature  
<222> (8)..(8)  
<223> n stands for a, g, c, or t

<400> 57  
taacaatnat cc 12

<210> 58  
<211> 15  
<212> DNA  
<213> Anthrax

<400> 58  
atccttatca atatt 15

<210> 59  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 59  
tctcaactcg ta 12

<210> 60  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 60  
tacgagttga gaatcctgaa tgcg 24

<210> 61  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 61  
gcgtaagtcc taacgtacta acggagcaga attgccagag ttgagcat 48

<210> 62  
<211> 72  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 62  
gcgtaagtcc tacaacaggc atttcgcagg ttatatacgt actaacggag cagaattgcc 60  
agagttgagc at 72

<210> 63  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 63  
tgcatgattg cctcgtctta acgg 24

<210> 64  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 64

gttgtccgta aagcgtccaa tataatgcattt attgcctcgt cttaacgg

48